

FIG. 1A

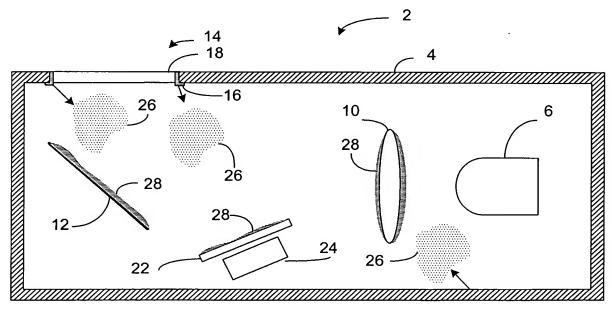
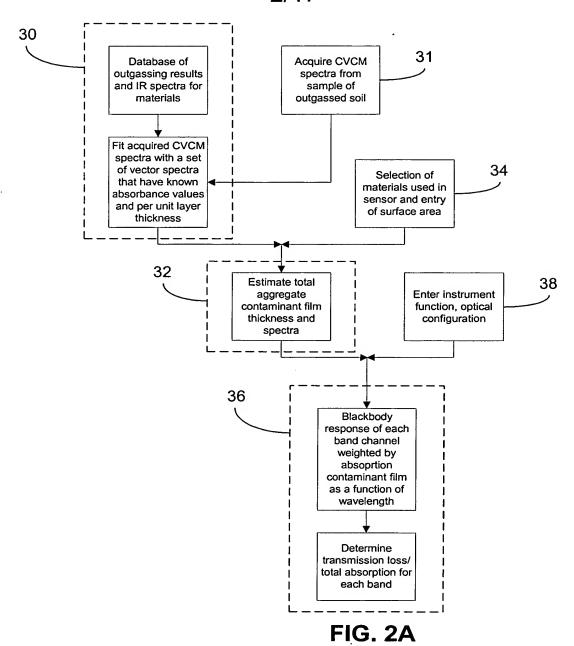
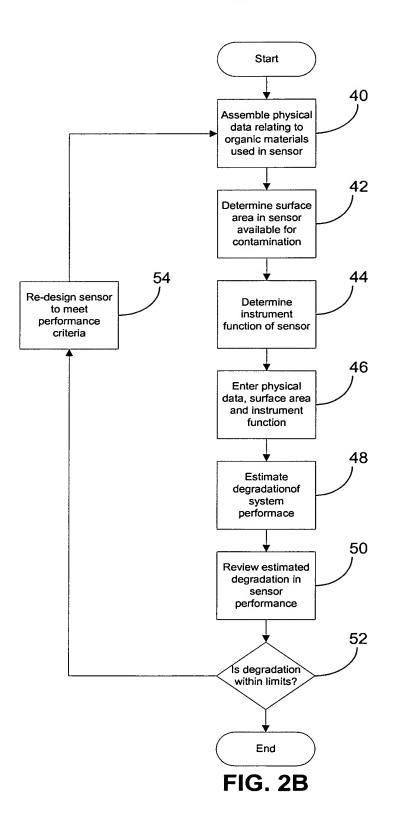


FIG. 1B





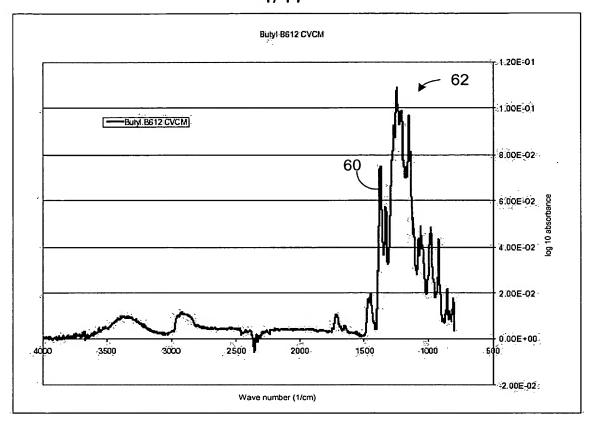
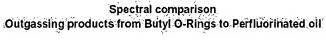


FIG. 3



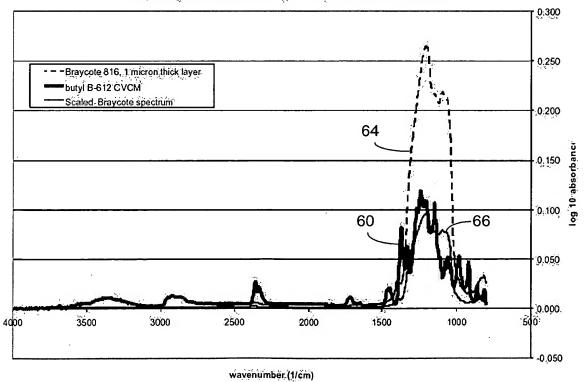
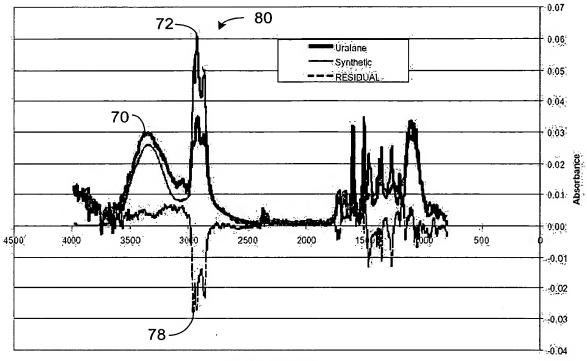


FIG. 4

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Synthetic spectrum - Uralane



Wavenumber (1/cm)

FIG. 5

76 -

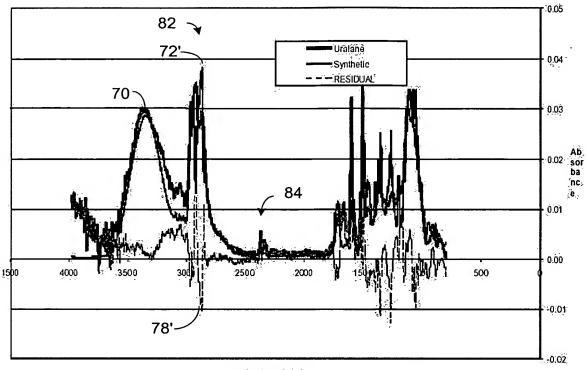
74

Vector	thickness	Class of contaminant
	(microns)	
N,N-diethylanliline	0.30	Aromatic amine
polyethyleneglycol	0.40	polyether
1-pentanol	0.30	Aliphatic alcohol
dioctylphthalate	0.05	Aromatic ester
dioctyl sebecate	0.05	Aliphatic ester
Octanoic acid	0.05	Aliphatic carboxylic acid
n-nonane	0.00	Aliphatic hydrocarbon
Total thickness	1.15	
79	•	
<del></del>	FIC 6	

FIG. 6

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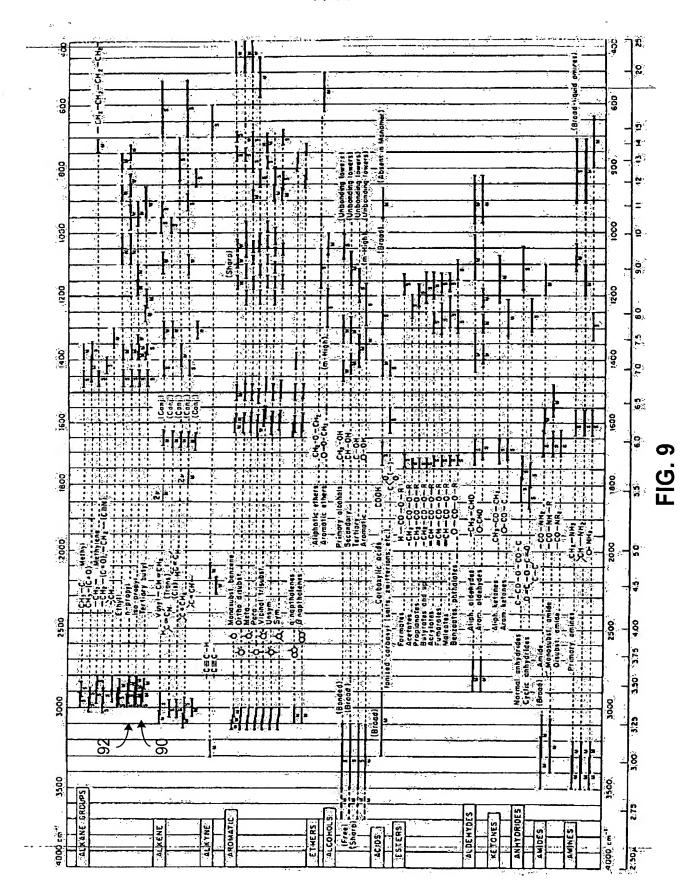
## Synthetic spectrum - Uralane compensation of C-H using n-nonane vector

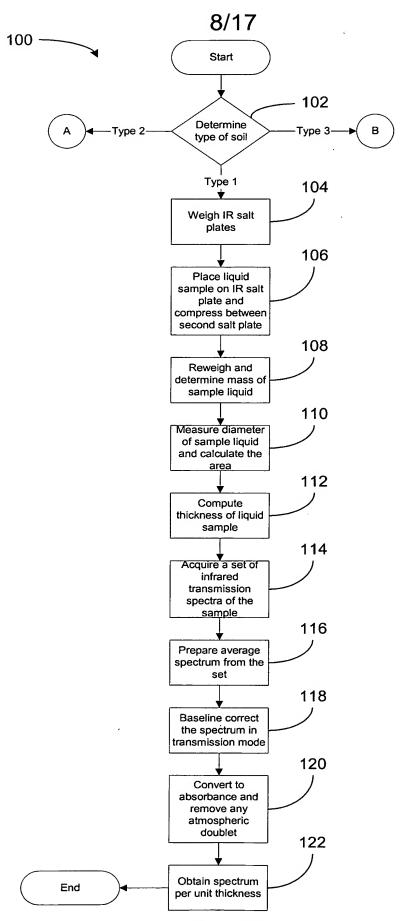


Wavenumber (1/cm)

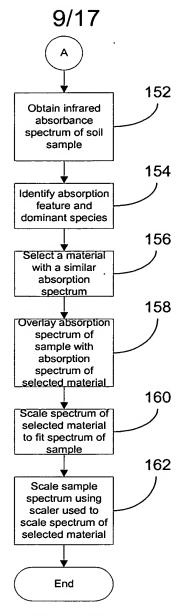
**FIG. 7** 

74'	76' — 86 —		88 🛶	
Vector	Applied thickness	Density	Density weighted thickness A	
N,N-diethylanliline Polyethylene glycol 1-pentanol dioctyl phthalate dioctyl sebecate Octanoic acid n-nonane	(microns) .30 .40 .35 .05 .05 .05 -0.50	(g cm <sup>-3</sup> ) 0.94 1.1 0.81 0.97 0.91 0.91 0.72	(micron g cm <sup>-3</sup> ) 0.282 0.440 0.284 0.048 0.046 0.046 -0.360	
sum	0.70	6.36	0.79	
Equivalent thickness	0.70 (micron)	N/A	0.87 (micron) <b>←</b> 79"	
79'	FIG. 8			

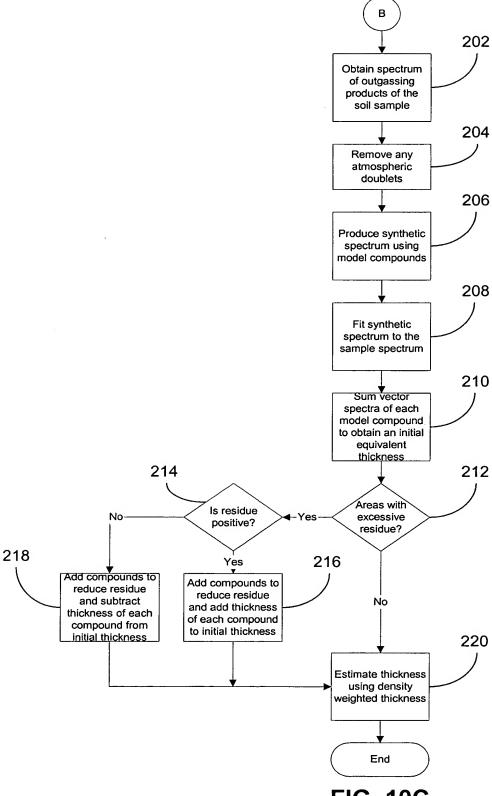




**FIG. 10A** 



**FIG. 10B** 



**FIG. 10C** 

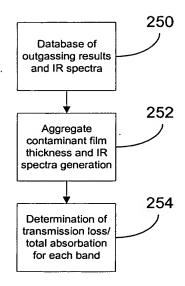
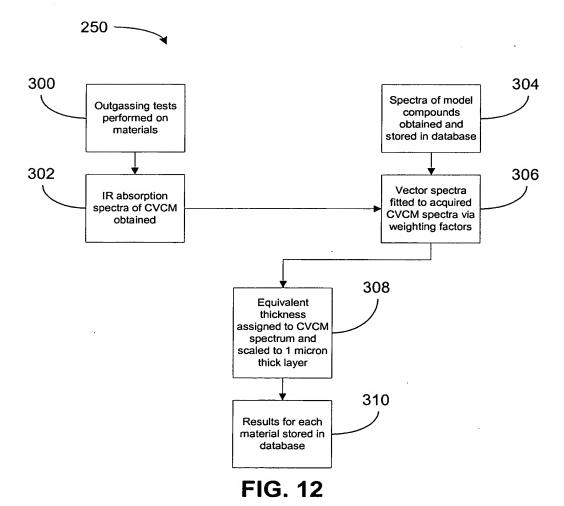


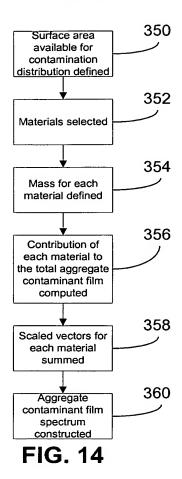
FIG. 11



	<b>12/17 ▶</b> 320				
32	2 32	43	226		
328	Model Compounds	Outgassing results	IR Spectra data		
330	Dioctyl Phthalate	OR1	SD1		
	Dioctyl Sebcate	OR2	SD2		
	•	•	•		
332	Compound n	ORn	SDn		

FIG. 13

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37	70 🚤 37	2 _ 374	4 🚤 376	5 🔪	378 🔪	380 🔪
Soil	Volume Of material	Density Of material	CVCM Of material	Density of CVCM	Estimated volume of CVCM / NVR	Estimated thickness Of CVCM/ NVR
	(cm <sup>3</sup> )	(g cm <sup>-3</sup> )	(% m/m)	(g cm <sup>-3</sup> )	(cm <sup>3</sup> )	(nm)
outgassing Adhesive 1 Polymer A	2.5 60	1.0 1.5	0.05 0.005	1.0 1.0	1.2 x 10 <sup>-3</sup> 4.5 x10 <sup>-3</sup>	1.5 5.6
<i>NVR</i> Hydrocarbon	0.080	1.0	1.00	1.0	8.0 x 10 <sup>-2</sup>	100

FIG. 15

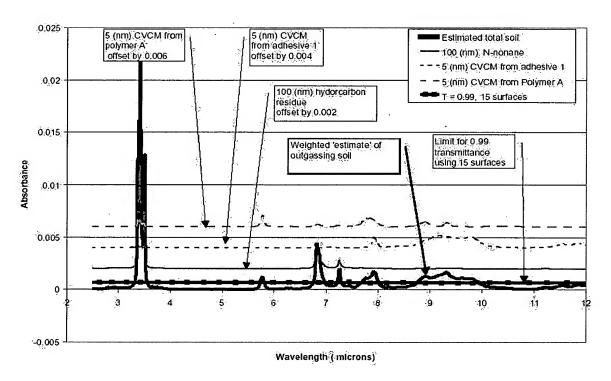


FIG. 16

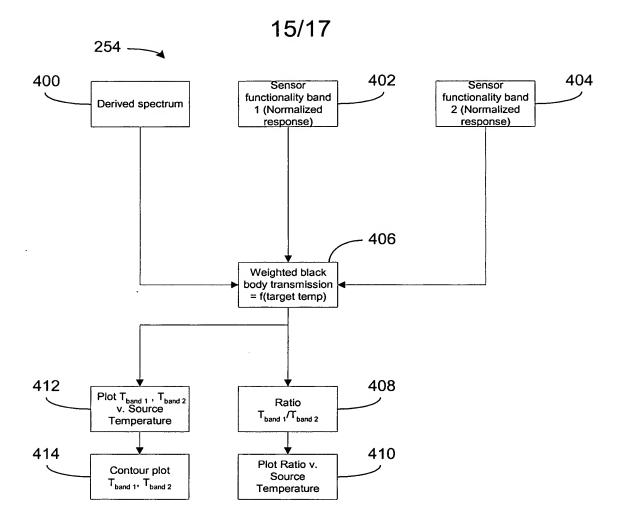
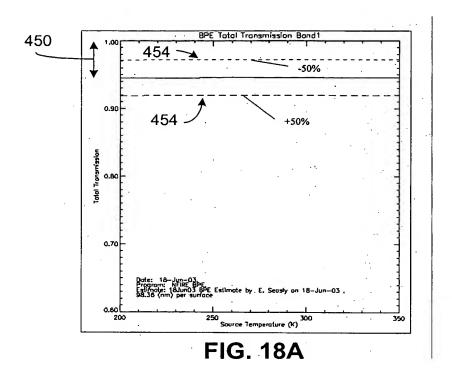
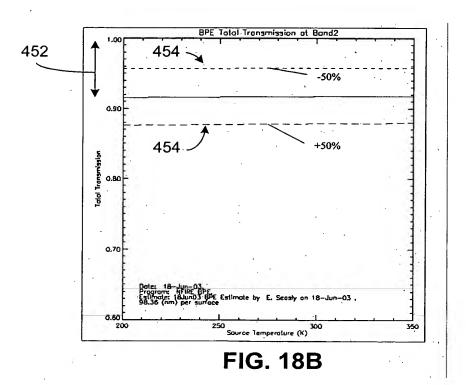


FIG. 17





## Band 1 Transmittance

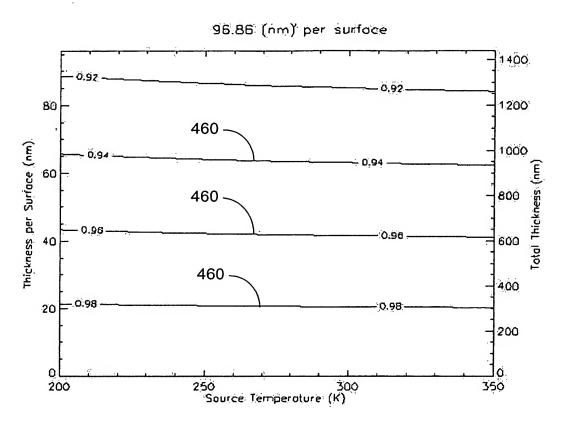


FIG. 18C

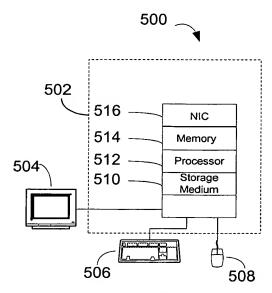


FIG. 19